

**Inhibition of atmospheric corrosion of mild steel by sodium dihydrogen  
orthophosphate treatment**

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**Abstract:** The purpose of this study was to evaluate the effectiveness of sodium dihydrogen orthophosphate as an inhibitor to slow down or prevent atmospheric corrosion of the local mild steel during storage in the Arabian Gulf region. In light of the results of some preliminary studies, sodium dihydrogen orthophosphate was selected for further evaluation against atmospheric corrosion of steel after it was applied at 10 mM concentration for 1 day at room temperature. © Emerald Group Publishing Limited.